



The U.S. Attorney General has determined that the publication of this periodical is necessary in the transaction of the public business required by the Department of Justice. Information, instruction, and disclaimers are published in the January issues.

---

- AUGUST 2011 -

---

### SELECTED REFERENCES

[The Selected References section is a compilation of recent publications of presumed interest to forensic chemists. Unless otherwise stated, all listed citations are published in English. Abbreviated mailing address information duplicates that which is provided by the abstracting service. Patents and Proceedings are reported only by their *Chemical Abstracts* citation number. For full text copies of any of the articles listed, you may email the DEA Library at [dea.library-at-usdoj.gov](mailto:dea.library-at-usdoj.gov).]

1. Romao W, Lalli PM, Franco MF, Sanvido G, Schwab NV, Lanaro R, Cost, JL, Sabino BD, Bueno MIMS, de Sa GF, Daroda RJ, de Souza V, Eberlin MN. **Chemical profile of meta-chlorophenylpiperazine (m-CPP) in ecstasy tablets by easy ambient sonic-spray ionization, X-ray fluorescence, ion mobility mass spectrometry and NMR.** Analytical and Bioanalytical Chemistry 2011;400(9):3053-3064. [Editor's Notes: Presents title study. Contact: ThoMSon Mass Spectrometry Laboratory, University of Campinas-UNICAMP, 13084-971 Campinas, SP, Brazil.]
2. Uchiyama N, Kikura-Hanajiri R, Ogata J, Goda Y. **Chemical analysis of synthetic cannabinoids as designer drugs in herbal products.** Forensic Science International 2010;198(1-3):31-38. [Editor's Notes: Presents title study. Contact: National Institute of Health Sciences, Setagaya-ku, Tokyo, Japan 158-8501.]
3. Westphal F, Junge T, Klein B, Fritschi G, Girreser U. **Spectroscopic characterization of 3,4-methylenedioxypyrrolidinobutyrophenone: A new designer drug with  $\alpha$ -pyrrolidinophenone structure.** Forensic Science International 2011;209(1-3):126-132. [Editor's Notes: Presents title study. Contact: Section Narcotics/Toxicology, State Bureau of Criminal Investigation Schleswig-Holstein, Muehlenweg 166, Kiel 24116, Germany.]

### Additional References of Possible Interest:

1. Fucci, N. **Maybe a new killer in illicit cocaine.** Forensic Science International 2011;209(1-3):e23-e25. [Editor's Notes: A GC/MS method for the detection of the fungicidal pesticide 2,6-disopropylnaphtalene (2,6-DIPN) in cocaine samples is presented. Contact: Institute of Legal Medicine, Catholic University of Sacred Heart, L.go F.VitoRome 1-00168, Italy.]
2. Grange AH, Sovocool GW. **Detection of illicit drugs on surfaces using direct analysis in real time (DART) time-of-flight mass spectrometry.** Rapid Communications in Mass Spectrometry 2011;25(9):1271-1281. [Editor's Notes: Methamphetamine deposited on household surfaces poses human health hazards. The National Institute for Occupational Safety and Health (NIOSH) methods for methamphetamine analysis on household surfaces require wipe sampling, extraction, clean-up, solvent exchange, derivatization, and/or mass spectral analysis using selected ion monitoring. A direct analysis in real time (DART) time-of-flight mass spectrometry method that requires only direct sampling using cotton-swab wipes is described. Each sampling requires 2 minutes and the data acquisition requires only 13 seconds. Optimum collision-induced dissociation voltages, desorption gas temperatures, and wipe sample solvents were determined for 11 drugs. Peaks were observed in analyte-ion traces for 0.025 µg/100 cm<sup>2</sup> of methamphetamine and seven other drugs. This level is half the detection limit of NIOSH methods and one-fourth of the lowest U.S. state decontamination limit for methamphetamine. Contact: ORD, NERL, Environmental Sci. Div., U.S. EPA, Las Vegas, NV, USA.]
3. Lanzarotta AC, Lakes K, Marcott C, Witkowski MR, Sommer AJ. **Analysis of counterfeit pharmaceutical tablet cores utilizing macroscopic infrared spectroscopy and infrared spectroscopic imaging.** Analytical Chemistry 2011; 83(15):5972-5978. [Editor's Notes: Presents title study. Contact: Trace Examination Section, FDA Forensic Chemistry Center, 6751 Steger Drive, Cincinnati, Ohio 45237, USA.]
4. Meng L, Wang B, Luo F, Shen G, Wang Z, Guo M. **Application of dispersive liquid-liquid microextraction and CE with UV detection for the chiral separation and determination of the multiple illicit drugs on forensic samples.** Forensic Science International 2011;209(1-3):42-47. [Editor's Notes: Presents title study. Contact: Department of Forensic Science, Chinese People's Public Security University, Beijing 100038.]
5. Weyermann C, Mimoune Y, Anglada F, Massonnet G, Esseiva P, Buzzini, P. **Applications of a transportable Raman spectrometer for the in situ detection of controlled substances at border controls.** Forensic Science International 2011; 209(1-3):21-28. [Editor's Notes: Presents title study. Contact: Institut de Police Scientifique, University of Lausanne, Batochime, Lausanne CH-1015, Switzerland.]

\* \* \* \* \*

## THE DEA FY 2011 STATE AND LOCAL FORENSIC CHEMISTS SEMINAR SCHEDULE

The FY 2012 schedule for the State and Local Forensic Chemists Seminar is as follows:

November 14-18, 2011

March 19-23, 2012

June 11-15, 2012

September 10-14, 2012

The school is open only to forensic chemists working for law enforcement agencies. It is intended for chemists who have completed their agency's internal training program and have also been working on the bench for at least one year. There is no tuition charge. The course is held at the Hyatt Place Dulles North Hotel in Sterling, Virginia (near the Washington/Dulles International Airport). A copy of the application form is reproduced on the last page of this issue of *Microgram Bulletin*. Completed applications should be mailed to the Special Testing and Research Laboratory at 22624 Dulles Summit Court, Dulles, VA 20166. For additional information, email [DEA-Forensic Chemist Seminar -at- usdoj.gov](mailto:DEA-Forensic-Chemist-Seminar-at-usdoj.gov) (replace -at- with @).

\* \* \* \* \*

### SCIENTIFIC MEETINGS

**Title:** 40<sup>th</sup> Annual Meeting of MAFS

**Sponsoring Organization:** Midwestern Association of Forensic Scientists

**Inclusive Dates:** September 19-23, 2011

**Location:** Weston Hotel at Yorktown (Lombard, IL)

**Contact Information:** See website

**Website:** [www.mafs.net](http://www.mafs.net)

**Title:** 2011 Northwest Association of Forensic Scientists Meeting

**Sponsoring Organization:** Northwest Association of Forensic Scientists

**Inclusive Dates:** September 25-30, 2011

**Location:** Hotel Murano (Tacoma, WA)

**Contact Information:** See website

**Website:** [www.nwafs.org](http://www.nwafs.org)

**Title:** Southwestern Association of Forensic Scientists Annual Conference

**Sponsoring Organization:** Southwestern Association of Forensic Scientists

**Inclusive Dates:** October 3-7, 2011

**Location:** Houston Marriott at Texas Medical Center (Houston, TX)

**Contact Information:** See website

**Website:** [www.swafs.us](http://www.swafs.us)

**Title:** The 2011 Northeastern Association of Forensic Scientists Annual Meeting

**Sponsoring Organization:** Northeastern Association of Forensic Scientists

**Inclusive Dates:** November 1-5, 2011

**Location:** Hyatt Regency Hotel & Spa (Newport, RI)

**Contact Information:** See website

**Website:** [www.neafs.org](http://www.neafs.org)

<b>DEA State and Local Forensic Chemist Seminar Application</b>			
Name: (PRINT NAME EXACTLY AS IT IS TO APPEAR ON CERTIFICATE)		Title:	
Employer:			
Your Office Mailing Address (include city, state, and zipcode):			Length of Service:
Business Telephone: (     )     -	Business Fax: (     )     -	Date of Application:	
Email Address:			
Education			
College or University	Degree	Major	
Please Check Which Techniques or Equipment Are Used in Your Laboratory			
<input type="checkbox"/>	Color Tests	<input type="checkbox"/>	UV
<input type="checkbox"/>	Column Chromatography	<input type="checkbox"/>	IR
<input type="checkbox"/>	Microcrystal Tests	<input type="checkbox"/>	CE
<input type="checkbox"/>	Thin Layer Chromatography	<input type="checkbox"/>	GC/MS
<input type="checkbox"/>	GC	<input type="checkbox"/>	Other (please specify)
<input type="checkbox"/>	HPLC	<input type="checkbox"/>	Other (please specify)
Indicate Analytical Problem(s) Nominee Would Like to Have Covered:			
Choice of Seminar Dates:			
1st Choice:		2nd Choice:	
Laboratory Chief/Director:			
Printed Name: _____		Signature: _____	
Title: _____		Date: _____	
Phone: _____			